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P O Box 1450 Alexandria, Virgima 22313-1450

### NOTICE OF ALLOWANCE AND FEE(S) DUE

23416 7590 03/04/2009 CONNOLLY BOVE LODGE & HUTZ, LLP P O BOX 2207 WILMINGTON, DE 19899 EXAMINER

MANOHARAN, VIRGINIA

ART UNIT PAPER NUMBER

1797

DATE MAILED: 03/04/2009

| APPLICATION NO.   | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |  |  |
|---|-------------|----------------------|---------------------|------------------|--|--|--|
| 10/551,360  | 09/28/2005  | Werner Peschel       | 13156-00017-US      | 6539             |  |  |  |
| TITLE OF INVENTION: METHOD FOR THE PURIFICATION OF DIMETHYLACETAMIDE (DMAC) |             |                      |                     |                  |  |  |  |

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1510        | \$300               | \$0                  | \$1810           | 06/04/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1:313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

| INSTRUCTIONS: This<br>appropriate. All further<br>indicated unless correcte<br>maintenance fee notifical  | form should be used f<br>correspondence includired<br>below or directed oth<br>tions.  | or tran                                       | smitting the ISSU<br>Patent, advance or<br>in Block 1, by (a                             |  |  |  |  | hould be completed where<br>correspondence address as<br>trate "FEE ADDRESS" for  |
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| CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)  |  |   |  | No<br>Fe<br>pa<br>ha   | Note: A certificate of mailing can only be used for domestic mailings of the<br>Fee(s) Transmittal. This certificate cannot be used for any other accompanying<br>papers. Each additional paper, such as an assignment or formal drawing, must<br>have its own certificate of mailing or transmission. |  |  |   |
| 23416<br>CONNOLLY I<br>P O BOX 2207<br>WILMINGTON   | 7590 03/04<br>BOVE LODGE &<br>, DE 19899   |   | ΓZ, LLP  | 1.6  | Cer  | rtificat                                       | of Mailing or Trans  |   |
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| APPLICATION NO.   | FILING DATE  |   |  | FIRST NAMED INVENTOR   | 3  | ATTC   | RNEY DOCKET NO.  | CONFIRMATION NO.  |
| 10/551,360  | 09/28/2005   |   |  | Werner Peschel   |  | 1  | 3156-00017-US  | 6539  |
| TITLE OF INVENTION  |  |   |  | `  |  |  |  |   |
| APPLN, TYPE   | SMALL ENTITY   | IS  | SUE FEE DUE  | PUBLICATION FEE DUE  | PREV. PAID ISSU  | E FEE  | TOTAL FEE(S) DUE   | DATE DUE  |
| nonprovisional  | NO   |   | \$1510   | \$300  | \$0  |  | \$1810   | 06/04/2009  |
| EXAM  | INER   |   | ART UNIT   | CLASS-SUBCLASS   |  |  |  |   |
| MANOHARA  | N, VIRGINIA  |   | 1797   | 203-099000   |  |  |  |   |
| "Fee Address" ind.<br>PTO/SB/47; Rev 03-0<br>Number is required.  3. ASSIGNEE NAME A' PLEASE NOTE: Uni<br>recordation as set forti                                    | ondence address (or Cha<br>3/122) attached.<br>ication (or "Fee Address<br>2 or more recent) attach<br>ND RESIDENCE DAT/<br>ess an assignee is ident<br>h in 37 CFR 3.11. Comp | nge of<br>"Indicated. Use                     | Correspondence ation form e of a Customer  | data will appear on the  <br>I' a substitute for filing ar   | o 3 registered paterively, the firm (having as agent) and the nam orneys or agents. If a printed.  (pp) patent. If an assignment.  | a memb<br>nes of u<br>no nan                   | p to p to see is 3   | ocument has been filed for  |
| Please check the appropr.  4a. The following fee(s):  | iate assignee category or  | catego  |  | (B) RESIDENCE: (CIT inted on the patent):  | Individual 🚨 C   | orporat  | ion or other private gro   | oup entity Government   |
| ☐ Issue Fee   | o small entity discount p  | permitte                                      |  | A check is enclosed. Payment by credit cs The Director is hereboverpayment, to Dep   | urd. Form PTO-203  | 3 is atta                                      | sched.<br>required fee(s), any de  |   |
|   | s SMALL ENTITY state   | ıs. See                                       | 37 CFR 1.27.   | b. Applicant is no lo  |  |  |  |   |
| NOTE: The Issue Fee an<br>interest as shown by the  | d Publication Fee (if req<br>records of the United Sta   | uired) v<br>tes Pat                           | will not be accepted<br>ent and Trademark  | from anyone other than<br>Office.  | the applicant; a reg   | istered  | attorney or agent; or th   | ne assignee or other party in   |
| Authorized Signature  |  |   |  |  | Date   |  |  |   |
| Typed or printed name   |  |   |  |  | Registration !   | No   |  |   |
| This collection of inform<br>an application. Confident<br>submitting the complete<br>this form and/or suggesti<br>Box 1450, Alexandria, V<br>Alexandria, Virginia 223 | ation is required by 37 C<br>tiality is governed by 35<br>I application form to the<br>ons for reducing this but<br>irginia 22313-1450. DC<br>13-1450.                         | FR 1.3<br>U.S.C.<br>USPT<br>rden, sl<br>D NOT | 11. The information 122 and 37 CFR O. Time will vary hould be sent to the SEND FEES OR C | on is required to obtain or<br>1.14. This collection is edepending upon the indice<br>the Chief Information Offic<br>COMPLETED FORMS T | retain a benefit by<br>stimated to take 12<br>vidual case. Any co<br>er, U.S. Patent and<br>O THIS ADDRES  | the pub<br>minute<br>ommen<br>Trader<br>S. SEN | lic which is to file (and<br>s to complete, includin<br>ts on the amount of tin<br>nark Office, U.S. Dep<br>D TO: Commissioner | by the USPTO to process)<br>g gathering, preparing, and<br>me you require to complete<br>artment of Commerce, P.O.<br>for Patents, P.O. Box 1450, |

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



# UNITED STATES PATENT AND TRADEMARK OFFICE

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PO Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

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| 10/551,360      | 09/28/2005      | Werner Peschel       | 13156-00017-US      | 6539             |  |  |
| 23416 75        | 90 03/04/2009   |                      | EXAMINER            |                  |  |  |
| CONNOLLY BO     | OVE LODGE & HUT | MANOHARAN, VIRGINIA  |                     |                  |  |  |
| P O BOX 2207    |                 | ART UNIT             | PAPER NUMBER        |                  |  |  |
| WILMINGTON, I   | DE 19899        | 1707                 |                     |                  |  |  |

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

 $(application \ filed \ on \ or \ after \ May \ 29, \ 2000)$ 

The Patent Term Adjustment to date is 666 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 666 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Application No. Applicant(s) 10/551 360 PESCHEL ET AL. Notice of Allowability Examiner Art Unit Virginia Manoharan 1797 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to amendment of 12/16/08. 2. The allowed claim(s) is/are 12-29. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some\* c) ☐ None of the: 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material

/Virginia Manoharan/ Primary Examiner, Art Unit 1797 9. ☐ Other .

Application/Control Number: 10/551,360

Art Unit: 1797

## REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The problem addressed by the instant method is to provide a process for distillatively purifying crude DMAc which ensures the achievement of the required specifications, in particular for solutions spinning for producing elastic polyurethane block copolymer fibers as well as hollow fibers. [See page 2, lines 26-30].

This problem is solved according to the invention by a process wherein at least a main column and a dividing wall column is operated at a top pressure in the range from 0.5 to 1.8 bar absolute. The inventors have found that, surprisingly, it is precisely a pressure and therefore a temperature rise which are required for the achievement of a pure product having a lower proportion of impurities. [See page 3, lines 11-13 and lines 21-23].

None of the prior art of record solved the problem by providing a process as indicated supra.

Thus, the subject matter of claims 12-29 is neither disclosed by the prior art nor is obvious.

The claims are deemed allowable over the prior of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Virginia Manoharan whose telephone number is 571-272-1450.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor. Glenn Caldarola. can be reached on 571-272-1444. Application/Control Number: 10/551,360 Page 3

Art Unit: 1797

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Virginia Manoharan/ Primary Examiner, Art Unit 1797